

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of determining a zero point ~~(V0)~~ of a current sensor in a circuit for operating a gas discharge lamp, ~~characterized by the following process steps~~ the method comprising the acts of:

~~the switching off a current (I1) through the current sensor is switched off for a short first period during a first half wave (13) and;~~

determining a first test value (V6) is determined,;

~~then switching off the current (I1) through the current sensor is switched off for a short second period during a second half wave (14) having a different polarity and;~~

determining a second test value (-V7) is determined,  
whereupon;

forming an average value is formed of the two first test values (V6, -V7), value and the second test value; and

determining the zero point (Vx, V0) is determined by means of said average value, wherein final test values of the current sensor immediately before a renewed switch-on of the current is used for determining the zero point.

2. (Currently Amended) A ~~The~~ method as claimed in claim 1, ~~characterized in that wherein~~ the switching-off acts takes place in ~~two the first half waves (13, 14) wave and the second half wave in quick succession.~~

Claim 3 (Canceled)

4. (Currently Amended) A method ~~as claimed in claim 1,~~ ~~characterized in that of~~ determining a zero point of a current sensor in a circuit for operating a gas discharge lamp, the method comprising the acts of:

switching off a current through the current sensor for a first period during a first half wave;

determining a first test value;  
switching off the current through the current sensor for a  
second period during a second half wave having a different  
polarity;  
determining a second test value;  
forming an average value of the first test value and the  
second test value; and  
determining the zero point by means of said average value,  
wherein an interval between two measurement groups, each group  
consisting of two measurements in two respective half waves ~~(t3,~~  
~~14)~~ of different polarity in ~~quick~~-succession, amounts to several  
seconds up to minutes.

5. (Currently Amended) A ~~The~~ method as claimed in claim 4,  
~~characterized in that wherein the measuring interval between the~~  
~~two measurement groups~~ is varied.

6. (Currently Amended) A ~~The~~ method as claimed in claim 1,  
~~characterized in that wherein a position (t3, t4) of a current~~  
blanking interval void within at least one the first half cycle

wave and the second half wave (13, 14) is varied.

7. (Currently Amended) ~~A The method as claimed in claim 1~~  
~~claim 6, characterized in that wherein the lamp~~ current is  
increased in the time before or after the current blanking  
interval.

8. (Previously Presented) A circuit arrangement for a high-  
pressure gas discharge lamp implementing a method as claimed in  
claim 1.

9. (Previously Presented) A projection system with a circuit  
arrangement for high-pressure gas discharge lamps, the circuit  
arrangement implementing a method as claimed in claim 1.

Claim 10 (Canceled)